Def caesar\_cipher\_encrypt(text, shift):

“””

Encrypt a given text using Caesar Cipher with the specified shift.

“””

Encrypted\_text = “”

For char in text:

If char.isalpha():

Shift\_amount = shift % 26

New\_char = chr(((ord(char.lower()) – 97 + shift\_amount) % 26) + 97)

If char.isupper():

New\_char = new\_char.upper()

Encrypted\_text += new\_char

Else:

Encrypted\_text += char

Return encrypted\_text

Def caesar\_cipher\_decrypt(text, shift):

“””

Decrypt a given text using Caesar Cipher with the negative shift value.

“””

Return caesar\_cipher\_encrypt(text, -shift)

Def main():

“””

The main function to handle user input and call encryption or decryption.

“””

Print(“Welcome to the Caesar Cipher program!”)

Choice = input(“Would you like to encrypt or (d)ecrypt a message? “).lower()

If choice not in [‘e’, ‘d’]:

Print(“Invalid choice, please enter ‘e’ for encrypt or ‘d’ for decrypt.”)

Return

Message = input(“Enter your message: “)

Shift = int(input(“Enter the shift value: “))

If choice == ‘e’:

Result = caesar\_cipher\_encrypt(message, shift)

Print(f”Encrypted message: {result}”)

Elif choice == ‘d’:

Result = caesar\_cipher\_decrypt(message, shift)

Print(f”Decrypted message: {result}”)

If \_\_name\_\_ == “\_\_main\_\_”:

Main()